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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
08/813,200	03/07/1997	MITSUHIRO HIRANO	2342-0107P	3165
2292	7590 07/16/2002			
BIRCH STEWART KOLASCH & BIRCH			EXAMINER	
PO BOX 741 FALLS CHU	DRCH, VA 22040-0747		RAO, SHRINIVAS H	
			ART UNIT	PAPER NUMBER
			2814	
			DATE MAILED: 07/16/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	08/813,200	HIRANO, MITSUHIRO				
Offic Action Summary	Examiner	Art Unit				
	Steven H. Rao	2814				
The MAILING DATE of this communicati n appears on the cover sheet with the correspondence address Period f r Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statur - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status		nely filed rs will be considered timely. I the mailing date of this communication. CD (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 30	<u>April 2002</u> .					
2a) ☐ This action is FINAL . 2b) ☑ T	his action is non-final.					
Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims						
4) Claim(s) 10,11,16 and 18 is/are pending in the application.						
4a) Of the above claim(s) is/are withdra	awn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) <u>10,11,16 and 18</u> is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
 Certified copies of the priority document 	nts have been received.					
Certified copies of the priority document	its have been received in Applicati	on No				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domes	tic priority under 35 U.S.C. § 119(e	e) (to a provisional application).				
 a) ☐ The translation of the foreign language pr 15) ☐ Acknowledgment is made of a claim for domes 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal I	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

DETAILED ACTION

Priority

Receipt is acknowledged of paper submitted under 35 U.S.C. 119(a)-(d), which papers filed on 3/7/97 (previously entered) have been placed of record in the file.

Continued Prosecution Application

The request filed on 4/108/2002 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 08/813,200 is acceptable and a CPA has been established. An action on the CPA follows.

Information Disclosure Statement

Acknowledgment is made of receipt of Applicant's Information Disclosure Statement (PTO-1449) filed April 10, 2002.

The references on PTO 1499 submitted on 4/10/02 are acknowledged. All the cited references have been considered. However the foreign patents and documents cited by applicant are considered to the extent that could be understood from the abstract and drawings.

The initialed 1449 has been made of record and the contract employees instructed to mail a copy of the initialed 1449 along with the instant office action.

Preliminary Amendment Status

Acknowledgment is made of entry of preliminary amendment filed 2 /13 /2002 has been entered on April 30, 2002 .

Therefore claims 10,11, 16 and 18 as recited in the amendment of 2/13/02 are currently pending in the application.

Claim Objections

Claims 11 and 16 are objected to because of the following informalities:

Claim 11 line 10 " the other end" has no antecendent basis. It is suggested that the phrase be changed to " an other end". Similarly line 27 "the inside" should be changed to " a inside" and line 28-29 "the atmospheric pressure" should be changed to an atmospheric pressure.

Similarly Claim 16 "the other end" has no antecendent basis. It is suggested that the phrase be changed to "an other end".

Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 10, 11, 16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shiraiwa (U.S Patent No. 5,273,423, herein after Shiraiwa)

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previously applied and Yanagawa et al. (U.S. Patent No. 5,277,215, herein after Yanangawa) Saeki (U.S. Patent No. 5,223001, herein after Saeki) also cited by the applicants in their IDS of April 03, 2002, newly applied.

With respect to claims 10 and 11, Shiraiwa teaches a substrate processing chamber as previously stated.

Shiraiwa does not specifically mention the newly added limitation of the atmospheric pressure vent line being connected to the vacuum exhaust line.

However, Yanagawa Claims 10, 11, 16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shiraiwa (U.S Patent No. 5,273,423, herein after Shiraiwa) previously applied and Yanagawa et al. (U.S. Patent No. 5,277,215, herein after Yanangawa) Saeki (U.S. Patent No. 5,223001, herein after Saeki) also cited by the applicants in their IDS of April 03, 2002, newly applied.

With respect to claims 10-11, Shiraiwa teaches a substrate processing chamber as previously stated.

Shiraiwa does not specifically mention the atmospheric pressure vent line being connected to the vacuum exhaust line, to exhaust the chamber

However, Yanagawa patent form the same field of endeavor, describes in figure 1 an atmospheric pressure vent line being connected to the vacuum exhaust line, to exhaust the chamber.

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to substitute Yangawa's atmospheric pressure vent line instead of Shiraiwa in Shiraiwa's apparatus to exhaust the chamber.

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Claim 11 additionally recites vacuum exhaust line is to be connected to a vacuum pump. (Yanagaw fgi.1, vacuum exhaust line connected to vacuum pump 8, col. 1 line 21-24).

Claims 16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shiraiwa (U.S Patent No. 5,273,423, herein after Shiraiwa) previously applied and Yanagawa et al. (U.S. Patent No. 5,277,215, herein after Yanangawa) and Terada (U.S. Patent No. 5,324, 540, herein after Terada) also cited by the applicants in their IDS of April 03, 2002, both newly applied

With respect to claim 16, Shiraiwa teaches a substrate processing chamber as previously stated.

Shiraiwa and Yanagawa do not specifically mention the local exhaust being connected to a space covered by a cover for covering a dust generating portion of the moving mechanism.

However, Terada, a patent form the same field of endeavor, describes in Figure 1 36 or 38, the local exhaust being connected to a space covered by a cover for covering a dust generating portion of the moving mechanism to locally exhaust the dust.

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include Terada's local exhaust pipe in place of Shiraiwa's local exhaust in the Apparatus taught by Shiraiwa and Yanagawa to locally exhaust the dust.

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The limitation a second valve provided at a portion of said first vacuum exhaust

line between said load lock chamber and a connection portion of said first and second

vacuum exhaust lines (Terada fig. 1 lines 36, 38 vales v2 or v3 or v6).

With respect to claim 18, in addition to the previous teachings, its new limitation,

namely the chamber exhaust not being connected to the space (i.e. the space covered

by said cover) (See Terada chamber exhaust 331 with valve 35 not being connected to

the space).

Response to Arguments

Applicant's arguments with respect to claims 10,11 and 18 have been considered

but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communication from the

examiner should be directed to Steven H. Rao whose telephone number is (703) 306-

5945. The examiner can normally be reached on Monday- Friday from approximately

7:00 a.m. to 4:30 p.m.

Any inquiry of a general nature or relating to the status of this application should

be directed to the Group receptionist whose telephone number is (703) 308-0956. The

Group facsimile number is (703) 308-7724.

Steven H. Rao

Patent'Examiner

July 13, 2002.

OLIK CHAUDHURI

SUPERVISORY PATENT EXAMINER

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